

## SPECIFICATION

range	-49.9 to 299.9 °C
resolution	0.1 °C or 1 °C - user selectable
accuracy	±0.4 °C (-49.9 to 199.9 °C) ±1 °C (200 to 299.9 °C)
sensor type	K thermocouple
battery	2 x 3 volt CR2032 lithium coin cell
battery life	1500 hours
display	14 mm LCD
dimensions	19 x 47 x 153 mm
weight	97 grams



## CALIBRATION

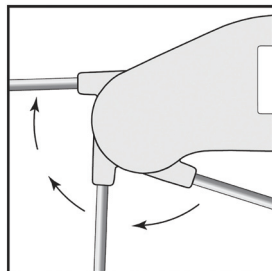
test temperature	0 °C	100 °C
instrument indication		
serial number		
calibrated by		date

This Thermanpen has been checked or calibrated against reference instrument(s) calibrated by an UKAS accredited calibration laboratory.

# Operating Instructions for Thermanpen™

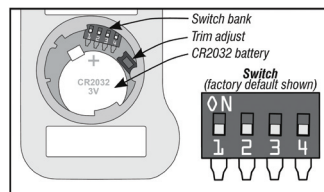


**INSTRUMENT OPERATION** - The instrument is switched on by unfolding the probe until the display illuminates. The unit is turned off by folding the probe back into the rubber probe retainer. The probe should not be rotated more than 180 degrees as damage will occur. It is recommended to store the probe, in the closed position, when not in use.



Apply the tip of the probe to the substance, surface or area to be measured. The probe should be allowed adequate time to stabilise to the temperature of the item to be measured.

**INSTRUMENT CONFIGURATION** - This instrument has four user selectable slide switches (switch bank), adjustable with a paperclip, and a single push button 'Trim Adjust' which is located under the battery cover.



Switch 1 - Not used

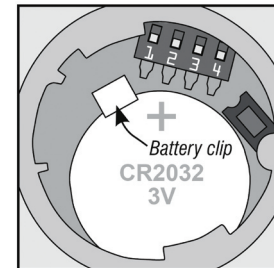
Switch 2 - Resolution To change the resolution from 0.1 °C (factory default) to 1 °C push the switch away from the batteries.

Switch 3 - Auto-off To disable the auto-off (factory default - 10 minutes) push the switch away from the batteries.

Switch 4 - Reading Trim For normal use, we do not recommend using the 'Trim Adjust'. For further details visit [www.etilt.com](http://www.etilt.com)

**INSTRUMENT CLEANING** - Clean the instrument regularly with an anti-bacterial probe wipe to avoid potential food-borne bacteria growth.

**BATTERY REPLACEMENT** - A battery symbol indicates that the batteries will need replacing. The instrument continues to measure accurately but we recommend that the batteries be changed as soon as possible. To replace the batteries, remove the battery cover using a coin. Remove the batteries by pulling the battery retaining clip back whilst holding the unit upside down. Replace both batteries, positive side up, replace cover.



**ERROR MESSAGES** - 'Lo' will be displayed if you are measuring below the instrument's range. 'Hi' will be displayed if you are measuring above the instrument's range. 'Err' will be displayed if the probe develops a fault. If the error message remains, contact our service department for further assistance.

**EMC/RFI** - Instrument performance may be affected if operated within a high frequency radio field, such as near a mobile phone, or if subjected to an electrostatic shock.

**GUARANTEE** - This instrument carries a two-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ETI, be either repaired or replaced without charge. This warranty does not apply to probes, where a six-month period is offered. The product warranty does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification. Full details of liability are available with ETI's Terms & Conditions of Sale available by request. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.